

### REMARKS

Reconsideration of the above-identified application in view of the amendments above and the remarks following is respectfully requested. Claims 40-60 are in this case. Claims 40-60 have been rejected under 35 USC § 112.

Examiner has noted that claims 40-60 include allowable subject matter. Claims 40-49 are amended herein in order to overcome rejections under 35 USC § 112.

#### Amendments to the Drawings

Examiner has objected to the drawings because certain blocks are unlabeled. Applicant has corrected the drawings accordingly and replacement sheets for all the drawings are attached hereto in compliance with 37 CFR 1.121(d).

#### Claim Objections:

The incorrect reference in claim 44 is corrected herein.

#### Rejections under 35 USC § 112

Applicant wishes to thank the Examiner for the telephone conversation held on June 26 14:00 EST during which the issues of the 112 rejection were clarified.

Claims 40-60 have been rejected under 35 U.S.C §112 second paragraph. Specifically, the Examiner notes that the terms "model" and "system" are not clear. Applicant respectfully traverses rejection to claim 55 which does not recite the terms "model" or "system". While continuing to traverse the Examiner's rejections, and without in any way prejudicing the patentability of the rejected claims, the Applicant has, in order to expedite the prosecution, chosen to amend the claims thereby rendering moot Examiner's rejections.

Specifically, Applicant has amended the claims with the claim term "model" replacing the term "model" with a phrase "relationship between inputs and outputs". The term "system" is not recited in claims 40 -51, 54-59 as amended herein. In claims 52-53 the term "system" is used in the context of a "multi-stage system" or cascade.

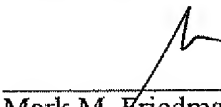
Claim 54 has been rejected under 35 U.S.C §112 first paragraph because the term "decaying of the integrated signal" is not supported explicitly in the

specification. Applicant has amended claim 54 to recite a discharging capacitor. The amendment is supported by paragraphs [0135]-[0137].

Claim 52 has been rewritten to be dependent on independent claim 40.

In view of the above amendments and remarks it is respectfully submitted that independent claims 40, 54, and 55 and claims dependent therefrom are in condition for allowance. Prompt notice of allowance is respectfully and earnestly solicited.

Respectfully submitted,



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